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Attorney Docket No.: FUJL 18.168

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Sunil Keshavji VADGAMA, et. al.
Filed: : CONCURRENTLY HEREWITH
For : RECEIVING APPARATUS INCLUDING ADAPTIVE BEAMFORMERS

May 29, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

S I R:

In order to comply with discretionary rules 37 CFR §§1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and copies of the documents listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

Also attached is a copy of the International Search Report and the a copy of the Search Report from the priority application GB 9826271.0. All of the documents listed in Form PTO-1449 appear in the Search Reports.

As this Statement is being filed prior to issuance of a first Office Action, no fee is due.

The present Disclosure Statement is being submitted in compliance with 37 CFR §1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR §§1.104 (a) and 1.106 (b), and in the course of

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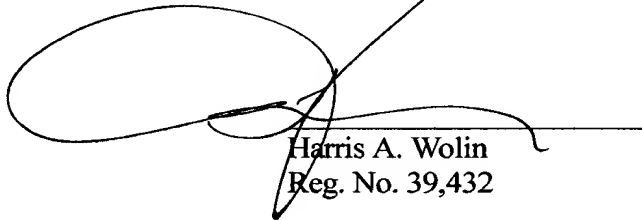
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such search will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is respectfully solicited.

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Respectfully Submitted,

A handwritten signature in black ink, consisting of a large loop followed by a horizontal line and a small flourish.

Harris A. Wolin
Reg. No. 39,432

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1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Sheet <u>1</u> of <u>1</u>	U.S. Department of Commerce Patent and Trademark Office	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Application No.</td> <td>: Concurrently herewith</td> </tr> <tr> <td>Filing Date</td> <td>: Concurrently herewith</td> </tr> <tr> <td>First Named Inventor</td> <td>: Sunil Keshavji VADGAMA, et. al.</td> </tr> <tr> <td>Group Art Unit</td> <td>:</td> </tr> <tr> <td>Examiner Name</td> <td>:</td> </tr> <tr> <td>Attorney Docket No.</td> <td>: FUJL 18.168</td> </tr> </table>	Application No.	: Concurrently herewith	Filing Date	: Concurrently herewith	First Named Inventor	: Sunil Keshavji VADGAMA, et. al.	Group Art Unit	:	Examiner Name	:	Attorney Docket No.	: FUJL 18.168
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U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		5,649,287		FORSSSEN	7/15/1997	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		0670608	EP	ATR	9/6/1995	
		0595247	EP	ATR	5/4/1994	
		98 27669	WO	CWILL	6/25/1998	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check here if English language translation attached ^T
		"Performance of Wireless CDMA with M-ary Orthogonal Modulation and Cell Site Antenna Arrays", Naguib A.F. et al, IEEE Journal on Selected Areas in Communications, US, IEEE Inc. N.Y., vol. 14, No. 9, pp 1770-1783, XP000639640, ISSN: 0733-8716	
		"Spatial Utilization and Suppression of Multipath Signals by Maximal-Ratio-Combining Digital-Beamformer for Mobile Radios", IEICE Transactions on Communications, JP, Institute of Electronics, Information and Comm. Eng. Tokyo, vol. E81-B, no. 4, 1 April 1998, pp 806-810, XP000780476, ISSN: 0916-8516	
		Paper entitled "An Adaptive Array Antenna Using Combined DFT and LMS Algorithm", K. Watanabe, I. Yoshii, and R. Kohno, Annual EIT Conference of Telecommunications, 1997.	

Examiner Signature		Date Considered	
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1⁶ if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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